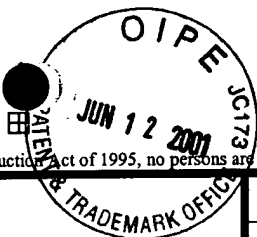


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Application Number	09/712,481
Filing Date	November 16 2000
First Named Inventor	Watanabe and Choi
Group Art Unit	1623
Examiner Name	
Attorney Docket Number	04670.105008 (SCH 2000)

Sheet 1 of 6

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
Dr	AA	4,522,811	A	Eppstein et al.	06-11-1985	
Dr	AB	5,041,449	A	Belleau et al.	08-20-1991	
Dr	AC	5,047,407	A	Belleau et al.	09-10-1991	
Dr	AD	5,210,085	A	Liotta et al.	05-11-1993	
Dr	AE	5,539,116	A	Liotta et al.	07-23-1996	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number	Kind Code ² (if known)				
Dr	AF	WO	91/11186	A1	Emory University	08-08-1991		
Dr	AG	WO	92/14743	A2	Emory University	09-03-1992		
Dr	AH	WO	96/07413	A1	University of GA et al.	03-14-1996		
Dr	AI	WO	97/12033	A1	Emory University	04-03-1997		
Dr	AJ	WO	00/09531	A2	Novirio Pharm. et al.	02-24-2000		
Dr	AK	EP	0 382 526	A2	IAF BioChem Intnatl.	10-18-1989		
Dr	AL	EP	0 337 713	B1	BioChem Pharma	05-15-1996		

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L. E. Crane

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Group Art Unit	1623
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Attorney Docket Number	04670.105008 (SCH 2000)

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
<i>me</i>	BA	AGUESSE-GERMON, S. et al. "Inhibitory Effect of 2'-Fluoro-5-Methyl-β-L-Arabinofuranosyl-Uracil on Duck Hepatitis B Virus Replication," <i>Antimicrob. Agents Chemother.</i> , 1998, 42 (2), 369-376. (February, 1998).	
<i>me</i>	BB	Alter M. J. et al. <i>J.A.M.A.</i> , 1990a, 264, 2231-2235. (November 7, 1990).	
<i>me</i>	BC	ALTER, M. J. et al. "The Natural History of Community-Acquired Hepatitis C in the United States," <i>N. Engl. J. Med.</i> , 1992, 327 (27), 1899-1905. (December 31, 1992).	
<i>me</i>	BD	Alter, M. J. <i>J. Gastro. Hepatol.</i> , 1990, 1, 78-94.	
<i>me</i>	BE	ALTER, H. J. et al. "Detection of Antibody to Hepatitis C Virus in Prospectively Followed Transfusion Recipients with Acute and Chronic Non-A, Non-B Hepatitis," <i>N. Engl. J. Med.</i> , 1989, 321, 1494-1500. (November 30, 1989).	
INC.	BF	<i>Antimicrob. Agents Chemother.</i>, 1986, 30, 491-498.	
<i>me</i>	BG	BAKER, B. R. et al. "Synthesis of Potential Anticancer Agents. VIII. Nucleosides Derived from L-Rhamnofuranose," <i>J. Org. Chem.</i> , 1957, 22, 966-971. (XIX August, 1957).	
<i>me</i>	BH	BARTON, D. H. R. et al. "A New Method for the Deoxygenation of Secondary Alcohols," <i>J. Chem. Soc., Perkin Trans. I</i> , 1975, 574-1585. (Issue No. 6).	
<i>me</i>	BI	CHANG, C.-N. et al. "Deoxycytidine Deaminase-resistant Stereoisomer Is the Active Form of (±)-2',3'-Dideoxy-3'-thiacytidine in the Inhibition of Hepatitis B Virus Replication," <i>Journal of Biological Chemistry</i> , 1992, 267 (20), 13938-13942. (July 15, 1992).	
<i>me</i>	BJ	CHOU, T.-C. et al. "Quantitative Analysis of Dose-Effect Relationships: the Combined Effects of Multiple Drugs or Enzyme Inhibitors," <i>Adv. Enzyme Regul.</i> , 1984, 22, 27-55.	
<i>me</i>	BK	CHU, C. K. et al. "Use of 2'-Fluoro-5-Methyl-β-L-Arabinofuranosyluracil as a Novel Antiviral Agent for Hepatitis B Virus and Epstein-Barr Virus," <i>Antimicrob. Agents Chemother.</i> , 1995, 39 (4), 979-981. (April, 1995).	
<i>me</i>	BL	COOK, S. L. et al. "Nucleoside 4',5'-Enol Acetates. Synthesis and Chemistry of a Unique Uridine O ² ,4'-Anhydronucleoside," <i>J. Am. Chem. Soc.</i> , 1979, 101 (6), 1554-1564. (2/14/99).	

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INC. Incomplete; see PTO-892 for complete citation.

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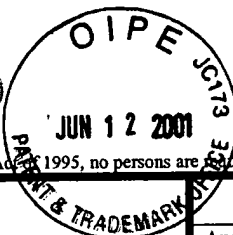
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Sheet	3	of	6
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Application Number	09/712,481
Filing Date	November 13, 2000
First Named Inventor	Watanabe and Choi
Group Art Unit	1623
Examiner Name	
Attorney Docket Number	04670.105008 (SCH 2000)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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Me	CA	DIENSTAG, J. L. "Non-A, Non-B Hepatitis. I. Recognition, Epidemiology, and Clinical Features," <i>Gastro</i> , 1983, 85, 439-462. (August, 1983).	
Me	CB !	DU, J. et al. "A Practical Synthesis of L-FMAU From L-Arabinose," <i>Nucleosides & Nucleotides</i> , 1999, 18 (2), 187-195.	
Me	CC	FOX, J. J. et al. "Pyrimidine Nucleosides. I. A New Route for the Synthesis of Thymine Nucleosides," <i>J. Am. Chem. Soc.</i> , 1956, 78, 2117-2122.M (May 20, 1956).	
Me	CD	FOX, J. J. et al. "Pyrimidine Nucleosides. IV. The Synthesis of 1-β-D-Lyxofuranosylthymine," <i>J. Am. Chem. Soc.</i> , 1958, 80, 5155-5160. (October 5, 1958).	
Me	CE !	FRIED, M. W. et al. "FIAU, A New Oral Anti-Viral Agent, Profoundly Inhibits HBV DNA in Patients with Chronic Hepatitis B," <i>AASLD Abstracts of Papers</i> , 1992, 16 (2), 127A.	
Me	CF	FURMAN, P. A. et al. "The Anti-Hepatitis B Virus Activities, Cytotoxicities, and Anabolic Profiles of the (-) and (+) Enantiomers of <i>cis</i> -5-Fluoro-1-[2-(Hydroxymethyl)-1,3-oxathiolane-5-yl]-Cytosine," <i>Antimicrobial Agents and Chemotherapy</i> , 1992, 36 (12), 2686-2692. (12/92).	
Me	CG !	HANTZ, O. et al. "Inhibition of human and woodchuck hepatitis virus DNA polymerase by the triphosphates of acyclovir, 1-(2'-deoxy-2'-fluoro-β-D-arabinofuranosyl)-5-iodocytosine and <i>E</i> -5-(2-bromovinyl)-2'-deoxyuridine," <i>Antiviral Res.</i> , 1984, 4, 187-199.	
Me	CH	HANTZ, O. et al. "Comparison of Properties of Woodchuck Hepatitis Virus and Human Hepatitis B Virus Endogenous DNA Polymerases," <i>Antimicrob. Agents Chemother.</i> , 1984, 25 (2), 242-246. (February, 1984).	
Me	CI !	HOLY, A. et al. "Nucleic Acid Components and their Analogues. CL. Preparation and Properties of Some Nucleoside Hydroxyalkanephosphonates," <i>Coll. Czech. Chem. Commun.</i> , 1972, 37, 2066-2076.	
Me	CJ !	ISHIDO, Y. et al. "Partial Protection of Carbohydrate Derivatives. Part 3. Regioselective 2'-O-Deacylation of Fully Acylated Purine and Pyrimidine Ribonucleosides with Hydrozine Hydrate," <i>J. Chem. Soc., Perkin Trans. I</i> , 1979, 2088. (Issue No. 8),	

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Application Number	09/712,481
Filing Date	November 13, 2000
First Named Inventor	Watanabe and Choi
Group Art Unit	1623
Examiner Name	
Attorney Docket Number	04670.105008 (SCH 2000)

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Sheet 4 of 6

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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Me	DA	KAZIMIERCZUK, Z. et al. "Synthesis of 2'-Deoxytubercidin, 2'-Deoxyadenosine, and Related 2'-Deoxynucleosides via a Novel Direct Stereospecific Sodium Salt Glycosylation Procedure," <i>J. Am. Chem. Soc.</i> , 1984, 106, 6379-6382.	
Me	DB	Klecker, R. W.; Katki, A. G.; Collins, J. M.; <i>Mol. Pharmacol.</i> , 1994, 46, 1204-1209. (12/94).	
Me	DC	KORBA, B. E. et al. "A cell culture assay for compounds which inhibit hepatitis B virus replication," <i>Antiviral Res.</i> , 1991, 15, 217-228. (Issue No. 1; January, 1991).	
Me	DD	LEWIS, W. et al. "Mitochondrial toxicity of antiviral drugs," <i>Nature Medicine</i> , 1995, 1 (5), 417-422. (May, 1995).	
Me	DE ¹	LEWIS, W. et al. "Mammalian DNA Polymerases α , β , γ , δ , and ϵ Incorporate Fialuridine (FIAU) Monophosphate into DNA and Are Inhibited Competitively by FIAU Triphosphate," <i>Biochemistry</i> , 1994, 33, 14620-14624. (Issue No. 48).	
Me	DF	MACILWAIN, C. "NIH, FDA seek lessons from hepatitis B drug trial deaths," <i>Nature</i> , 1993, 364 (6435), 275. (July 22, 1993).	
Me	DG	MATSUDA, A. et al. "A Simplified Method for the Synthesis of Pyrimidine Nucleosides," <i>Synthesis</i> , 1981, 748. (Issue No. 9; September, 1981).	
Me	DH ¹	MCDUGAL, J. S. et al. "Immunoassay for the Detection and Quantitation of Infectious Human Retrovirus. Lymphadenopathy-Associated Virus (LVA)," <i>J. Immun. Meth.</i> , 1985, 76, 171-183.	
Me	DI	MCKENZIE, R. et al. "Hepatic Failure and Lactic Acidosis due to Fialuridine (FIAU), an Investigational Nucleoside Analogue for Chronic Hepatitis B," <i>New Eng. J. Med.</i> , 1995, 333 1099-1105. (Issue No. 17; October 26, 1995).	
Me	DJ	MIZUNO, Y. et al. "A Novel Synthesis of Purine β -D-Nucleosides via Purine 8,5'-S-Anhydronucleosides," <i>J. Am. Chem. Soc.</i> , 1972, 94 (13), 4737-4739. (06/28/72).	
Me	DK ¹	NIEDBALLA, U. et al. "A General Synthesis of N-Glycosides. I. Synthesis of Pyrimidine Nucleosides," <i>J. Org. Chem.</i> , 1974, 39 (25), 3654-3660.	

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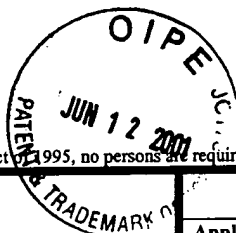
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First Named Inventor	Watanabe and Choi
Group Art Unit	1623
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Attorney Docket Number	04670.105008 (SCH 2000)

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Me	EA	PAI, S. P. et al. "Inhibition of Hepatitis B Virus by a Novel L-Nucleoside, 2'-Fluoro-5-Methyl-β-L-Arabinofuranosyl Uracil," <i>Antimicrob. Agents. Chemother.</i> , 1996, 40 (2), 380-386. (February, 1996).	
Me	EB	PANKIEWICZ, K. et al. "Nucleosides. 121. Improved and General Synthesis of 2'-Deoxy-C-Nucleosides. Synthesis of 5-(2-Deoxy-β-D-erythro-pentofuranosyl)uracil, -1-methyluracil, -1,3-dimethyluracil, and -isouracil," <i>J. Org. Chem.</i> , 1982, 47 (3), 485. (Jan. 29, 1982).	
Me	EC	PARKER, W. B. et al. "Mitochondrial Toxicity of Antiviral Nucleoside Analogs," <i>J. NIH Res.</i> , 1994, 6, 57-61. (March, 1994).	
Me	ED	PFITZNER, K. E. et al. "Sulfoxide-Carbodiimide Reactions. I. A Facile Oxidation of Alcohols," <i>J. Am. Chem. Soc.</i> , 1965, 87 (24), 5661-5670. (December 20, 1965).	
Me	EE ¹	RAAD, I. et al. "Maximal Sterile Barriers (MSB) During the Insertion of Central Venous Catheters (CVC) for the Prevention of Infections: A Prospective Randomized Study," Abstracts of the 32 nd Interscience Conference on Antimicrobial Agents and Chemotherapy, 1992, Abstract #264	
Me	EF	REIST, E. J. et al. "Synthesis of 9-β-D-Arabinofuranosylguanine," <i>Biochemistry</i> , 1964, 3 (1), 15-18. (January, 1964).	
Me	EG	ROBINS, M. J. et al. "Nucleic Acid Related Compounds. 42. A General Procedure for the Efficient Deoxygenation of Secondary Alcohols. Regiospecific and Stereospecific Conversion of Ribonucleosides to 2'-Deoxynucleosides," <i>J. Am. Chem. Soc.</i> , 1983, 105 (12), 4059-4065. (June 15, 1983).	
Me	EH	SCHINAZI, R. F. et al. "Activities of 3'-Azido-3'-Deoxythymidine Nucleotide Dimers in Primary Lymphocytes Infected with Human Immunodeficiency Virus Type 1," <i>Antimicrob. Agents Chemother.</i> , 1990, 34 (6), 1061. (June, 1990).	
Me	EI	SCHINAZI, R. F. et al. "Combinations of Isoprinosine and 3'-Azido-3'-Deoxythymidine in Lymphocytes Infected with Human Immunodeficiency Virus Type 1," <i>Antimicrob. Agents Chemother.</i> , 1988, 32 (12), 1784-1787. (December, 1988).	

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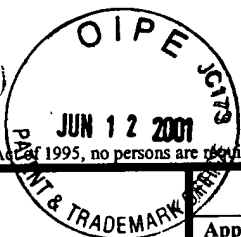
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/712,481
				Filing Date	November 15, 2000
				First Named Inventor	Watanabe and Choi
				Group Art Unit	1623
				Examiner Name	
Sheet	6	of	6	Attorney Docket Number	04670.105008 (SCH 2000)

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Me	FA	SCHINAZI, R. F. et al. "Effect of Combinations of Acyclovir with Vidarabine or Its Monophosphate on Herpes Simplex Viruses in Cell Culture and in Mice," <i>Antimicrobial Agents and Chemotherapy</i> , 1982, 22 (3), 499-507. (September, 1982).		
Me	FB	SCHINAZI, R. F. et al. "Selective Inhibition of Human Immunodeficiency viruses by Racemates and Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl)-1,3-Oxathiolane-5-yl]Cytosine" <i>Antimicrobial Agents and Chemotherapy</i> , 1992, 36 (11), 2423-2431. (11/92).		
Me	FC	SMEJKAL, J. et al. "Nucleic Acids Components and their Analogues. LII. Preparation of 1,2'-Deoxy-β-L-Ribofuranoxylthymine, 'L-Thymidine'," <i>Coll. Czech. Chem. Commun.</i> , 1964, 29 (11), 2809-2813. (November, 1964).		
Me	FD	SPIRA, T. J. et al. "Micromethod for Assaying Reverse Transcriptase of Human T-Cell Lymphotropic Virus Type III/Lymphadenopathy-Associated Virus," <i>J. Clin. Meth.</i> , 1987, 25, 97-99. (Issue No. 1; January, 1987).		
Me	FE !	TENNANT, B. et al. "Pharmacokinetic and Pharmacodynamic Studies of 1-(2-Fluoro-5-methyl-β-L-arabinofuranosyl)uracil (L-FMAU) in the Woodchuck Model of Hepatitis B Virus (HBV) Infection," <i>Antiviral Res.</i> , 1996, 34 (2), A52.		
Me	FF	TOUCHETTE, N. "HBV-Drug Deaths Prompt Restudy of Similar Antivirals," <i>J. NIH Res.</i> , 1993, 5, 33-35. (September, 1993).		
Me	FG !	VORBRUGGEN, H. et al. "Nucleoside Synthesis with Trimethylsilyl Triflate and Perchlorate as Catalysts," <i>Chem. Ber.</i> , 1981, 114, 1234-1255.		
Me	FH	WATANABE, K. A. et al. "Nucleosides LVII. A Simplified Method for the Synthesis of Pyrimidine Nucleosides (1,2)," <i>J. Heterocycl. Chem.</i> , 1969, 6, 109-110. (February, 1969).		
Me	FI	Yamaguchi, T. et al. "Synthetic Nucleosides and Nucleotides. XXI. On the Synthesis and Biological Evaluations of 2'-Deoxy-α-D-ribofuranosyl Nucleosides and Nucleotides," <i>Chem. Pharm. Bull.</i> , 1984, 32 (4), 1441-1450. (April, 1984).		

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Application Number	09/712,481
Filing Date	November 13, 2000
First Named Inventor	Watanabe <i>et al.</i>
Group Art Unit	1623
Examiner Name	
Attorney Docket Number	08841.105008 PHA 1010

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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